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Application Number	Filed
09/430,973	Dec 4, 2000

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United States Patent Application Publication No. 09/728 963, page, _____ line _____,

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(12) **United States Patent**
Carr et al.

(10) **Patent No.: US 6,505,124 B2**
(45) **Date of Patent: Jan. 7, 2003**

(54) **GPS SYSTEM TO PROVIDE PLANTER TRIPPING FOR CROP RESEARCH PLOTS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 78 days.

(21) Appl. No.: **09/728,963**

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Related U.S. Application Data

(63) Continuation-in-part of application No. 09/430,973, filed on Nov. 1, 1999, now abandoned.
(60) Provisional application No. 60/169,067, filed on Dec. 6, 1999.

(51) **Int. Cl.**[7] **G06F 19/00**
(52) **U.S. Cl.** **702/5**; 702/2
(58) **Field of Search** 702/5, 2; 701/50

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,334,987 A		8/1994	Teach	
5,664,402 A		9/1997	Sandvik et al.	
5,704,546 A		1/1998	Henderson et al.	
5,757,315 A		5/1998	Aoki	
5,899,956 A		5/1999	Chan	
5,902,343 A		5/1999	Hale et al.	
5,913,915 A	*	6/1999	McQuinn	701/50
6,088,644 A	*	7/2000	Brandt et al.	701/50
6,112,143 A	*	8/2000	Allen et al.	701/25
6,141,614 A	*	10/2000	Janzen et al.	172/2
6,199,000 B1	*	3/2001	Keller et al.	701/50

* cited by examiner

Primary Examiner—Donald E. McElheny, Jr.

(57) **ABSTRACT**

A GPS system to provide planter tripping for crop research plots provides the longitude and latitude of the first trip location and provide a continuous flow of location information. A control computer calculates the next tripping location and provides a signal to the planter at that location and each subsequent tripping location in the field grid. A GPS receiver mounted on the planter provides location information. When the first plot is manually tripped the computer will use vector information to determine the next tripping location. The computer has a program that allows entry of planted length and alley width so the system can calculate the next plot location from the original planter trip. Additional parameters entered in the program include the number of trips needed to pass across the field and the number of passes that would be needed to complete the planting grid.

10 Claims, 3 Drawing Sheets